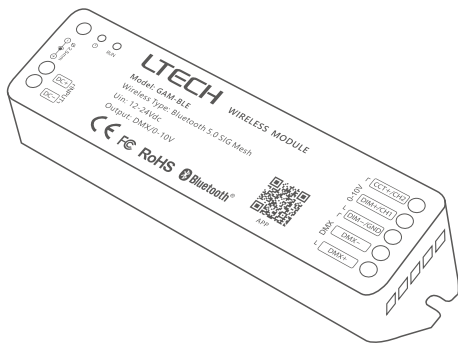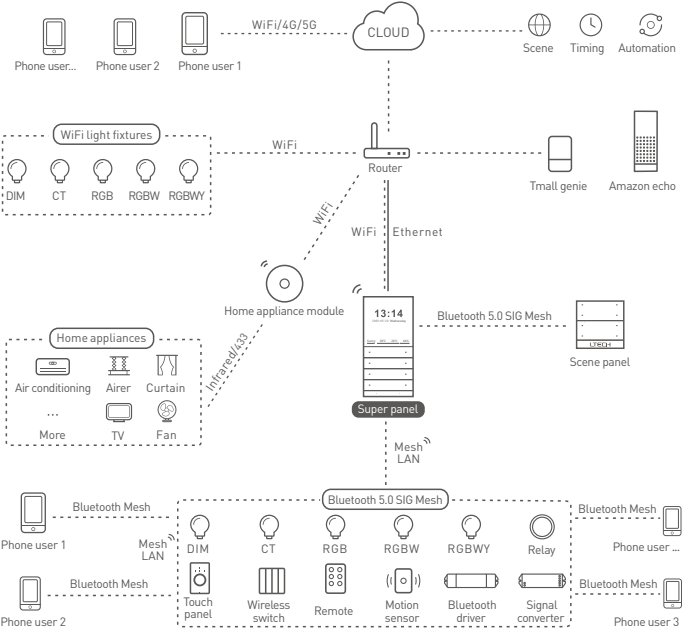# GAM-BLE
Wireless Module

Manual

For more information, please visit our website
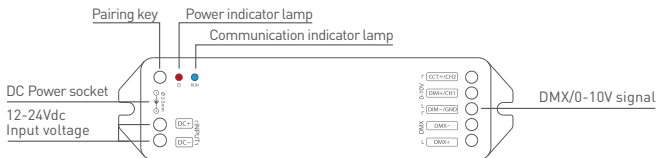www.ltech-led.com

System Diagram

Product Characteristics

- Adopt SAMSUNG/COVESTRO V0 flame resistant polycarbonate protective housings with small size and light weight.
- Bluetooth 5.0 SIG Mesh with high networking capability are reliable and stable.
- Support control iOS or Android devices through Bluetooth connection.
- Support remote, wireless panel switch and group control over LAN without connecting a gateway.
- Work with the Super Panel to achieve remote control.
- With soft-on and fade-in dimming function enhancing visual comfort.
- 0-100% dimming range, down to 0.1%.
- Covert Bluetooth signal to 0-10V signal, and connect to 0-10V dimmable drivers to control DIM/CT.
- Covert Bluetooth signal to DMX signal, and connect to DMX dimmable drivers to control DIM/CT/RGB/RGBW/RGBWY.
- Adding a super tool allows you to set up soft start gradient time, lighting status after power-on, and dimming curves.

Technical Specs

Model	GAM-BLE
Wireless Protocol Type	Bluetooth 5.0 SIG Mesh
Output Signal	0-10Vx2CH / DMX
Working Voltage	12 ~ 24Vdc
Wireless Spectrum	2.4GHZ
Working Temperature	-20°C ~ 55°C
Working Humidity	20 ~ 95%RH, non-condensing
Protection	Anti reverse connection
Dimensions	125×33×20mm(L×W×H)
Package Size	127×35×22mm(L×W×H)
Weight(G. W.)	60g

Diagram

Pairing key
Power indicator lamp
Communication indicator lamp

DC Power socket
12-24Vdc
Input voltage
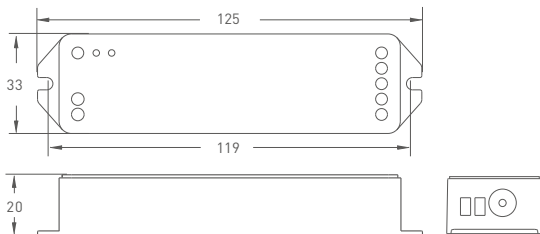
CCT+/CH2
D-0-10V DIM+/CH1
DIM-/GND
DMX DMX-
DMX+

DMX/0-10V signal

＊ Long press the pairing key for 6s, The communication indicator lamp light is flashing blue, the device has been reset to factory defaults and gets into the network configuration mode again.
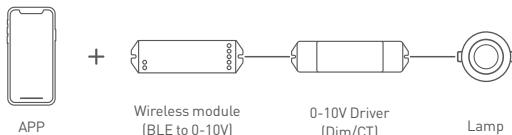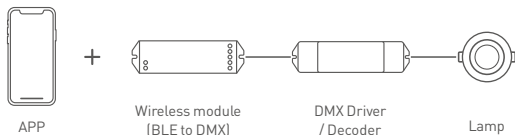
Product Size

Unit: mm

125

33

119

20

Recommend Applications

1. Link up the wireless module(After BLE to 0-10V) by App to achieve fast dimming control.

APP

+

Wireless module
(BLE to 0-10V)

0-10V Driver
(Dim/CT)

Lamp

2. Link up the wireless module(After BLE to DMX) by App to achieve fast dimming control.

APP

Wireless module
(BLE to DMX)

DMX Driver
/ Decoder

Lamp

3. Link up the Super Panel with the wireless module by App to realize visual control + remote control of traditional panels.

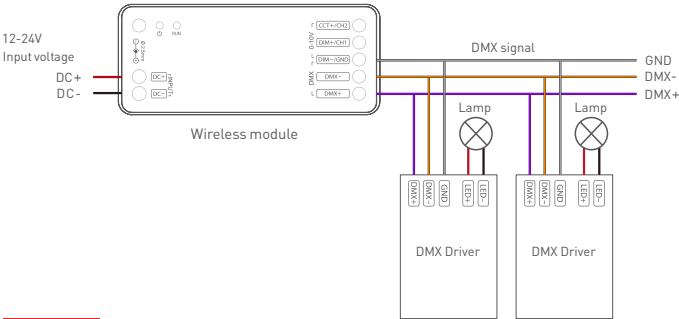APP   Super Panel   Remote   Wireless switch   Wireless module   Driver/Decoder   Lamp
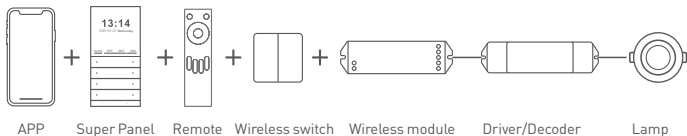
4. Link up the intelligent touch panel with the module by App to control the lamp simultaneously by App, Super Panel and touch panel.

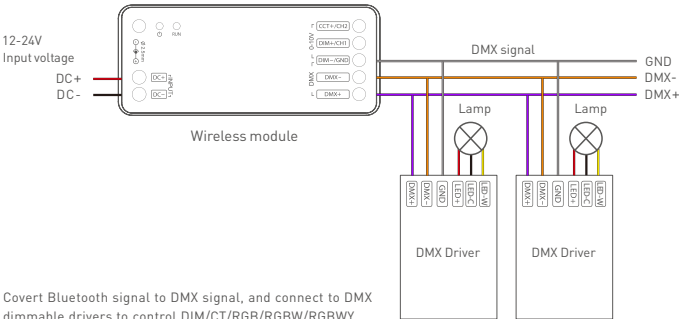APP   Super Panel   Touch panel   Wireless module   Driver/Decoder   Lamp
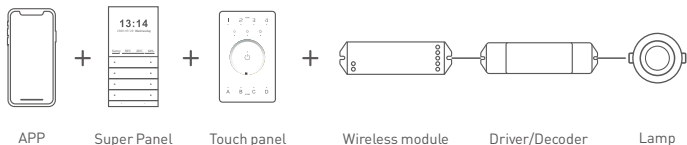
5. ......More applications of intelligent control are waiting for you to set up.

DMX Wiring Diagram

12-24V
Input voltage

DC+
DC-

Wireless module

DMX signal

GND
DMX-
DMX+

Lamp

Lamp

DMX+ DMX- GND LED+ LED-

DMX+ DMX- GND LED+ LED-

DMX Driver

DMX Driver

CT

12-24V
Input voltage

DC+
DC-

Wireless module

DMX signal

GND
DMX-
DMX+

Lamp

Lamp

DMX+ DMX- GND LED+ LED-C LED-W
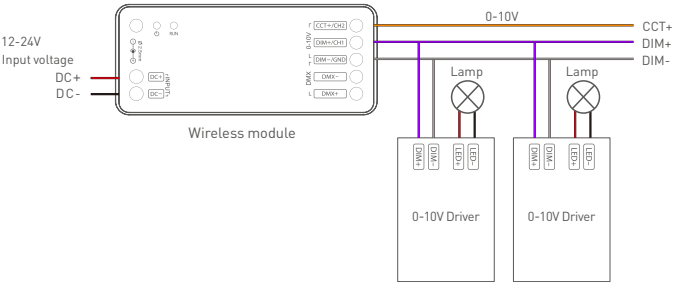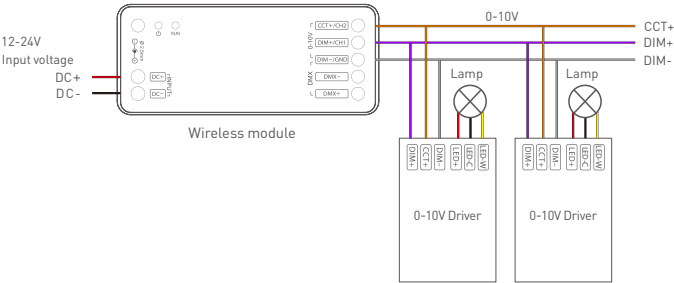
DMX+ DMX- GND LED+ LED-C LED-W

DMX Driver

DMX Driver

Covert Bluetooth signal to DMX signal, and connect to DMX dimmable drivers to control DIM/CT/RGB/RGBW/RGBWY.

0-10V Wiring Diagram

Dim

12-24V
Input voltage

DC+
DC-

Wireless module

0-10V

CCT+
DIM+
DIM-

Lamp

Lamp

0-10V Driver

0-10V Driver

CT

12-24V
Input voltage

DC+
DC-

Wireless module

0-10V

CCT+
DIM+
DIM-

Lamp
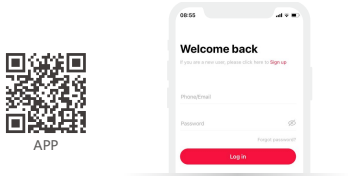
Lamp

0-10V Driver

0-10V Driver

App Operating Instructions

1. Register an account

Scan the QR code below with your mobile phone and follow the prompts to complete the App installation. Open the App and log in or register an account.


APP

2. Paring instructions

Create a home if you are a new user. Click "+" icon in the upper right corner and access "Add Device" list. Pick "Smart Lighting" from "Add Device" list to select the light fixture type you want to add. Click "Bluetooth Search" to add the device (Make sure the device is powered on and not connected to network). When you have already searched the device , click "+" icon to add it. Rename the device and select the room it belongs to, then click "Confirm" and you'll successfully add the device.

3. Control interface settings

After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness, colors and color temperature. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable normal modes and editable advanced modes. Customize dynamic modes to put you into a more colorful life.
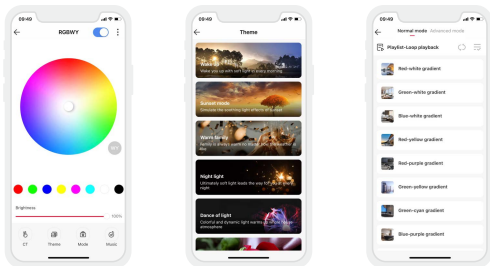

4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level or change color temperature more easily. Switch to "Group" menu and click "+" icon in the upper right corner. Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and to save them.
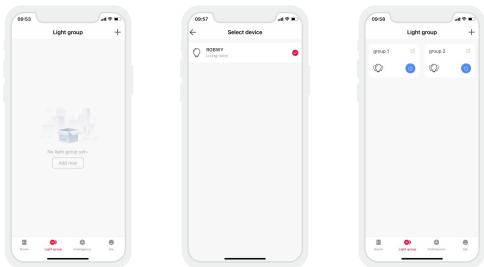
5. Advanced functions

This module can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.
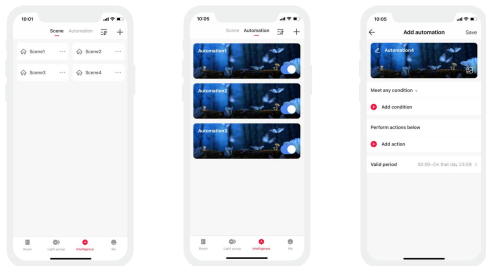

How to Reset the Device (Reset to Factory Defaults)

Method 1(Recommended): Go to the App settings and click "Delete Device". When the lamp flashes 5 times, the device will exit the network successfully.

Method 2: Long press the pairing key for 6s. When the lamp flashes 5 times, the device will exit the network successfully. This method is to force exit the network and is for abnormal condition use.

Method 3: Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , reset the device to factory defaults successfully.
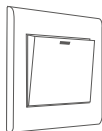
Turn it on 2s

Turn it off 15s

Under the driver being power-on

Turn it off ——15s—— Turn it on ——2s—— ......

(Repeat 6 times)

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

＊ This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.
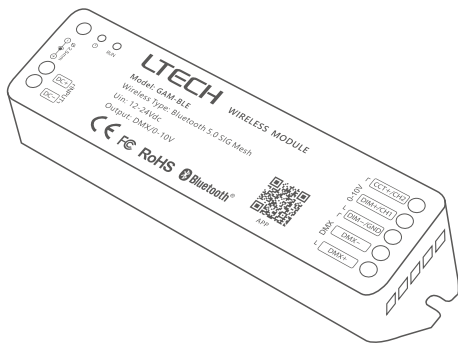
Warranty Agreement

- Warranty periods from the date of delivery: 2 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.

- Any artificial damage caused by high voltage, overload, or improper operations.

- Products with severe physical damage.

- Damage caused by natural disasters and force majeure.

- Warranty labels and barcodes have been damaged.

- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.

2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.
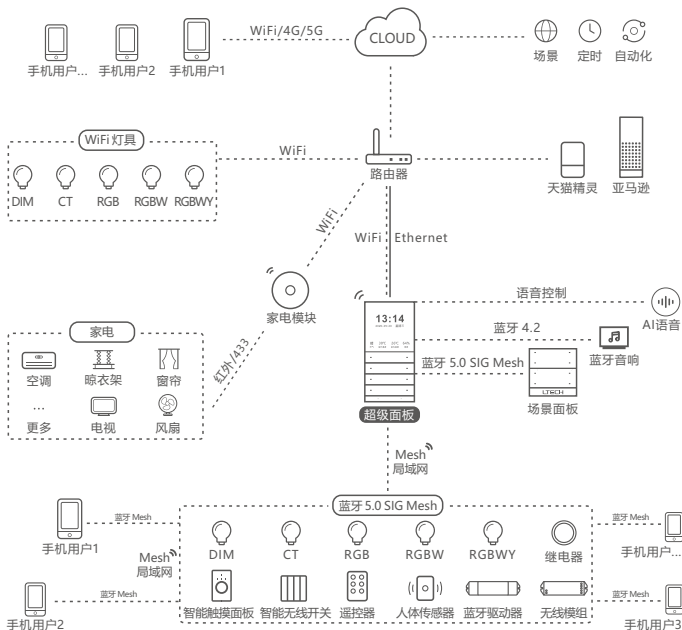
LTECH

GAM-BLE
无线模组

系统图

手机用户... 手机用户2 手机用户1

WiFi/4G/5G

CLOUD

场景 定时 自动化

WiFi灯具

DIM CT RGB RGBW RGBWY

WiFi

路由器

天猫精灵 亚马逊

WiFi

家电模块

WiFi Ethernet

语音控制

蓝牙 4.2

AI语音

13:14

蓝牙 5.0 SIG Mesh

蓝牙音响

家电

空调 晾衣架 窗帘

... 电视 风扇
更多

红外/433

超级面板

场景面板

LTECH

Mesh
局域网

蓝牙 Mesh

手机用户1

Mesh
局域网

蓝牙 5.0 SIG Mesh

DIM CT RGB RGBW RGBWY 继电器

蓝牙 Mesh

手机用户...

蓝牙 Mesh

手机用户2

智能触摸面板 智能无线开关 遥控器 人体传感器 蓝牙驱动器 无线模组

蓝牙 Mesh

手机用户3

01

产品特性

- 体积小、重量轻; 采用SAMSUNG/COVESTRO PC V0阻燃保护壳。
- 蓝牙 5.0 SIG Mesh通信协议, 组网能力强, 可靠稳定。
- 支持iOS和安卓智能设备蓝牙直连控制。
- 支持无网关控制, 可实现局域网遥控, 无线面板, 群组等控制。
- 可搭配超级面板实现远程, 智能化控制。
- 带软启动渐亮功能, 让人眼视觉更舒适。
- 调光范围: 0~100%, LED从0.1%开始调光。
- 蓝牙转2通道0-10V信号, 支持调光, 调色温0-10V驱动控制。
- 蓝牙转DMX信号, 连接DMX驱动器, 可控制调光, 调色温, RGB, RGBW, RGBWY灯具类型。
- 通过超级工具, 可设置缓启动渐变时间、通电后灯光状态、调光曲线等, 赋予灯光设计高端品质。

技术参数

产品型号	GAM-BLE
无线类型	蓝牙 5.0 SIG Mesh
输出信号	0-10Vx2CH / DMX
工作电压	12 ~ 24Vdc
无线频段	2.4GHZ
工作温度	-20°C ~ 55°C
工作湿度	20 ~ 95%RH, 无冷凝
保护	防反接
产品尺寸	125×33×20mm(L×W×H)
包装尺寸	127×35×22mm(L×W×H)
产品重量	60g

示意图

配对键　电源指示灯　通信指示灯

DC电源插孔
12-24Vdc
输入电压

CCT+/CH2
DIM+/CH1
DIM-/GND
DMX-
DMX+

DMX/0-10V信号
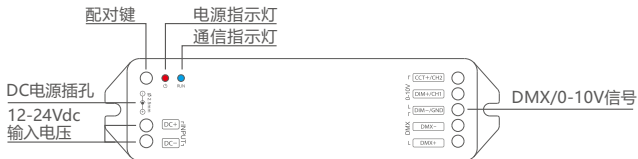
＊ 长按配对键6秒, 通信指示灯蓝灯闪烁, 表示设备已恢复出厂设置, 重新进入配网状态。

尺寸图

单位: mm

125

33

119

20
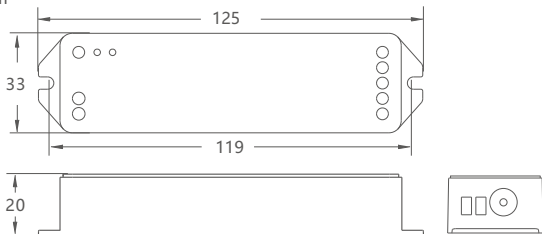
推荐应用控制方式

1. 通过APP设置关联无线模组(蓝牙转0-10V)后, 可实现蓝牙直连控制。

APP　　　　　无线模组　　　　0-10V驱动器　　　　灯
　　　　　(蓝牙转0-10V)　　　(调光/色温)

2. 通过APP设置关联无线模组(蓝牙转DMX)后, 可实现蓝牙直连控制。

APP　　　无线模组　　　DMX驱动器　　　灯
　　　　(蓝牙转DMX)　　解码器
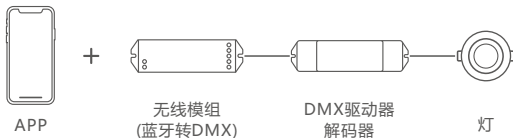
3. 通过APP设置超级面板关联无线模组, 实现可视化控制+传统调光面板遥控控制。

APP　超级面板　遥控器　无线开关　　无线模组　　驱动器/解码器　灯
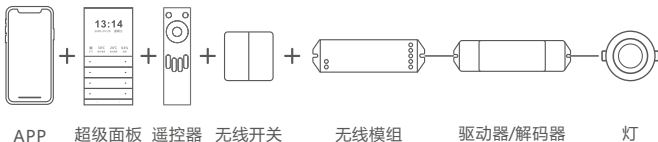
4. 通过APP设置面板关联无线模组后, 可实现多点同时控制灯具。

APP　　超级面板　智能触摸面板　　无线模组　　驱动器/解码器　灯
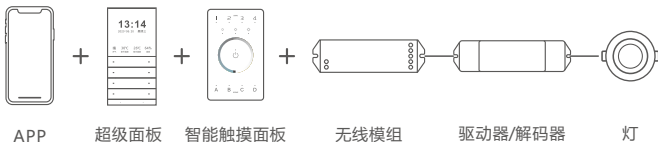
5. ......智能控制, 更多应用搭配等您来体验。

DMX 连接应用图

12-24V DC+
电源输入 DC -

无线模组

DMX信号

GND
DMX-
DMX+

灯具

灯具

DMX+ DMX- GND LED+

DMX+ DMX- GND LED-

DMX驱动

DMX驱动

12-24V DC+
电源输入 DC -

无线模组

DMX信号

GND
DMX-
DMX+

灯具

灯具

DMX+ DMX- GND LED-C LED-W

DMX+ DMX- GND LED-C LED-W
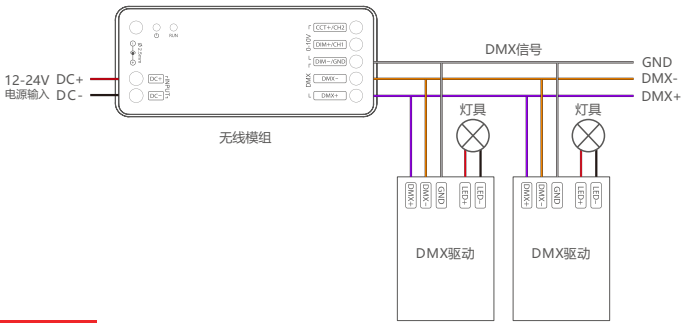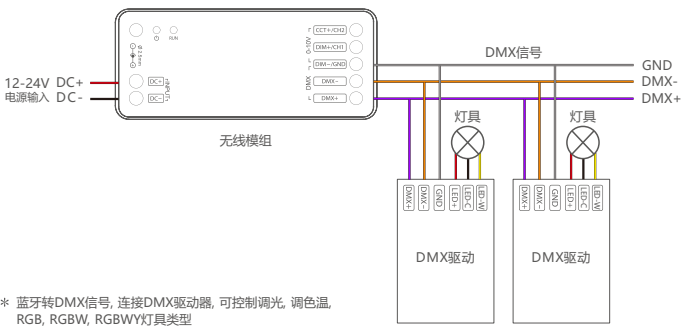
DMX驱动

DMX驱动

＊ 蓝牙转DMX信号, 连接DMX驱动器, 可控制调光, 调色温,
RGB, RGBW, RGBWY灯具类型

0-10V 连接应用图

0-10V

CCT+
DIM+
DIM-

12-24V DC+
电源输入 DC -

无线模组

灯具

0-10V电源

灯具

0-10V电源

0-10V

CCT+
DIM+
DIM-

12-24V DC+
电源输入 DC -

无线模组

灯具

0-10V电源

灯具

0-10V电源
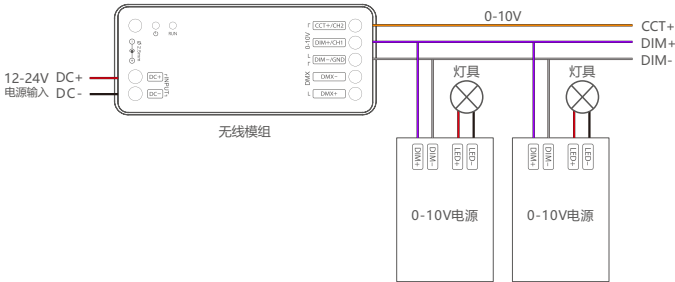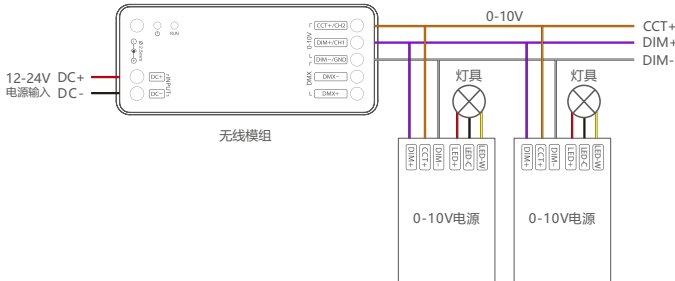
APP操作说明

1. 账号注册

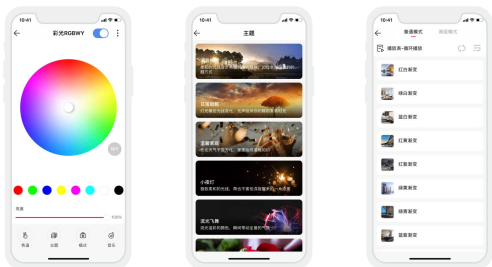通过手机扫描下方二维码, 按提示完成APP安装后即可进行登录/注册操作。

扫码下载APP

2. 配对操作

新用户创建家庭后, 点击右上角 "+" 进入添加设备列表。在添加设备列表中选择 "智能照明", 选择需添加的灯具类型后, 点击 "蓝牙搜索" 添加设备 (确保设备已接通电源与处于未入网状态), 当已搜索到新设备, 点击 "+" 添加设备, 定义好设备命名与位置点击 "确定", 设备添加成功。
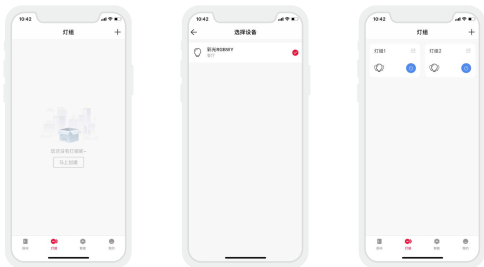
3. 控制界面设置

配对完成后, 进入控制界面, 可以通过调节颜色色温, 亮度达到想要的灯光效果。点击主题, 进入主题界面, 可一键切换多种主题灯光效果。点击模式, 具有可编辑的普通模式和高级模式。自定义动态模式, 让您的生活更加丰富多彩。
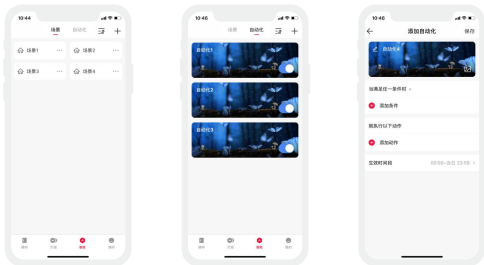

4. 灯具群组

同类型灯具可以组成灯组, 用户可以对灯组进行调色、调光等操作, 操作更加便利。切换到 "灯组"菜单, 点击右上角 "+", 按照提示修改灯组名称后, 点击 "下一步", 勾选需要组成灯组的设备, 保存即可。

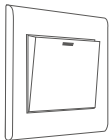## 5. 高级功能

本产品可以通过与具有网关功能的设备联动。如超级面板, 可实现云场景、自动化等高级功能。

重置设备(恢复出厂设置)

方法1(推荐): 手机 APP 进入设备设置界面, 点击删除设备, 灯具闪烁5次, 表示退网成功。

方法2: 长按配对键6秒, 灯具闪烁5次, 表示退网成功, 此方法用于强制退网, 属于异常情况使用。

方法3: 确保驱动已接灯具且处于常亮状态下, 使用开关让驱动连续断电6次 (每次断电时间15秒、通电2秒), 第六次通电2秒后, 灯具闪烁5次, 即表示驱动已恢复到出厂设置状态。

开 (通电) 2秒

关 (断电) 15秒

在通电情况下进行

断电 —— 15秒 —— 通电 —— 2秒 —— ……

(重复6次)

注意事项

- 请由具有专业资格的人员进行调试安装;

- 雷特产品（专有型号除外）不能防水, 需避免日晒雨淋, 如安装在户外, 请用防水箱;

- 良好的散热条件会延长产品的使用寿命, 请把产品安装在通风良好的环境;

- 请检查使用的工作电压是否符合产品的参数要求;

- 使用的电线直径大小必须能足够负载连接的LED灯具, 并确保接线牢固;

- 通电调试前, 应确保所有接线正确, 以避免因接线错误而导致灯具损坏;

- 如果发生故障, 请勿私自维修; 如果有疑问, 请联系供应商。

* 本说明书的内容如有变更, 恕不另行通知。若内容与您使用的功能有所不同, 则以实物为准。如有疑问, 欢迎向
我司授权的经销商咨询。

保修条例

- 自出厂之日起保修服务期为2年。
- 在保修服务期内出现产品质量问题雷特将给予免费修理或更换服务。

非保修条例:
属下列情况不在免费保修或更换服务范围之内:

- 已经超出保修服务期;
- 过高电压、超负载、操作不当等人为造成的损坏;
- 产品外形严重损坏或变形;
- 自然灾害以及人力不可抗拒原因造成的损坏;
- 产品保修标签和产品唯一条形码损坏;
- 无雷特签订的合同或发票凭证。

1. 修理或更换是雷特对客户的唯一补救措施。雷特不承担任何附带引起的损害赔偿责任, 除非在适用法律范围之内。
2. 雷特享有修正或调整本保修条款的权利, 并以书面形式发布为准。